

AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions of claims in the application:

1. (Previously Presented) A method performed on a Web page containing text-based information other than previously iconified information, said method performed by a communication system including a Web page server containing said Web page, an access server, and an access device capable of communicating with said Web page server through said access server, said method performed during a communication session and comprising:

at said access server:

retrieving said Web page contained on said Web page server;

parsing said text-based information within said Web page;

recognizing a text-based telephone number contained within said text-based information of said parsed Web page, said text-based telephone number including a plurality of number symbols and at least one text symbol interspersed with said plurality of number symbols;

converting an HTML code representation of said Web page; and

adding a representation that iconifies said recognized text-based telephone number.

2. (Currently Amended) The method of claim 1, further comprising:

at said access device, transparently disconnecting from said communication session upon selection of said ~~selectable iconic representation of~~ representation that iconifies said recognized text-based telephone number to initiate a telephone call session.

3. (Previously Presented) The method of claim 2, further comprising at said access device:

recognizing the termination of said telephone call session; and  
transparently re-connecting to said communication session.

4. (Canceled)

5. (Previously Presented) The method of claim 1, further comprising at said access server:  
transmitting said Web page with said iconic representation of said recognized text-based telephone number to said access device.

6. (Previously Presented) The method of claim 5, wherein said access device is an Internet-capable telephone.

7, 8. (Canceled)

9. (Original) The method of claim 1, wherein said iconified telephone number is identified by one of a button surrounding the number, font appearance, underlining, or highlighting.

10. (Original) The method of claim 1, wherein all recognized telephone numbers are iconified.

11. (Original) The method of claim 1, wherein telephone numbers meeting a specific criteria are iconified.

12. (Previously Presented) The method of claim 1, wherein said parsing and recognizing further comprises:

- developing a set of Picture Formats for the patterns of telephone numbers;
- reading an accessed Web page;
- checking every character in said text-based information within said Web page to determine if said character is a numeric character;
- applying a pattern-recognition algorithm to sequentially check a character following an identified numeric character to determine if said following character is any of a numeric or an interspersed text or punctuation character;
- caching a series of consecutive identified numeric characters; and
- comparing said cached series to said Picture Formats,

wherein a matching format indicates a text-based telephone number.

13. (Currently Amended) The method of claim 2, wherein said transparently disconnecting from said communication session upon selection of said iconified text-based telephone number and calling said telephone number further comprises at said access device:

- selecting said ~~selectable iconic representation of~~ representation that iconifies said recognized text-based telephone number in a display of said access device;
- initiating a telephone call with said access device to said selected recognized text-based telephone number if a telephone line or sufficient bandwidth is available;

transparently disconnecting said access device from said session if a telephone line is not available, and thereupon initiating a telephone call to said selected recognized text-based telephone number;

recognizing with said access device the termination of said telephone call; and  
optionally transparently re-connecting said access device to said communication session.

14. (Currently Amended) The method of claim 5, further comprising at said access device:

automatically storing said ~~selectable iconic representation of~~ representation that iconifies said recognized text-based telephone number in an address book.

15. (Currently Amended) A method for utilizing an access server to recognize and iconify telephone numbers from a Web page, said method comprising [[7]]:

retrieving said Web page during an Internet session linking a Web page server to an access device, wherein said Web page is retrieved by said access server from said Web page server at the request of said access device;

parsing the HTML code of said Web page;

applying a parsing algorithm to text-based information other than previously iconified information within said Web page to pattern-recognize a text-based telephone number contained therein;

converting said HTML code to a representation of said Web page;

adding coding to said representation of said Web page to produce a selectable telephone number icon associated with said recognized text-based telephone number; and

transmitting said representation of said Web page with said selectable telephone number icon to said access device for display.

16. (Previously Presented) The method of claim 15, wherein said applying said parsing algorithm further comprises:

developing a set of Picture Formats for the patterns of text-based telephone numbers;  
reading an accessed HTML document using a software program on said access server;  
checking every character in said text-based information of said HTML document to determine if said checked character is a numeric character;

using pattern-recognition algorithm to sequentially check a character following an identified number to determine if said character is any of numeric or interspersed text or punctuation character;

caching a series of consecutive numeric characters; and  
comparing said cached series to said Picture Formats,  
wherein a matching format indicates a text-based telephone number.

17. (Currently Amended) The method of claim 15, wherein said ~~iconified telephone number~~ selectable telephone number icon is identified by one of a button surrounding the number, font appearance, underlining, or highlighting.

18. (Original) The method of claim 15, wherein all recognized telephone numbers are iconified.

19. (Original) The method of claim 15, wherein telephone numbers meeting a specific criteria are iconified.

20-37. (Canceled)

38. (Previously Presented) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for utilizing an access server to recognize and iconify telephone numbers from a Web page, said method comprising:

retrieving said Web page during an Internet session linking a Web page server to an access device, wherein said Web page is retrieved by said access server from said Web page server at the request of said access device;

parsing the HTML code of said Web page;

applying a parsing algorithm to text-based information other than previously iconified information within said Web page to pattern-recognize a text-based telephone number contained therein;

converting said HTML code to a representation of said Web page;

adding coding to said representation of said Web page to produce a selectable telephone number icon associated with said recognized text-based telephone number; and

transmitting said representation of said Web page with said selectable telephone number icon to said access device for display.

39. (Previously Presented) The device of claim 38, wherein said applying said parsing algorithm further comprises:

developing a set of Picture Formats for the patterns of text-based telephone numbers;  
reading an accessed HTML document;  
checking every character in said text-based information of said HTML document to  
determine if said checked character is a numeric character;  
using pattern-recognition algorithm to sequentially check a character following an  
identified number to determine if said character is any of numeric or interspersed text or  
punctuation character;  
caching a series of consecutive numeric characters; and  
comparing said cached series to said Picture Formats,  
wherein a matching format indicates a text-based telephone number.

40. (Currently Amended) The device of claim 38, wherein said ~~iconified telephone number~~ selectable telephone number icon is identified by one of a button surrounding the text-based telephone number, font appearance, underlining, or highlighting.

41. (Previously Presented) The device of claim 38, wherein all recognized text-based telephone numbers are iconified.

42. (Previously Presented) The device of claim 38, wherein text-based telephone numbers meeting specific criteria are iconified.

43, 44. (Canceled)

45. (Previously Presented) A system for processing a Web page containing text-based information other than previously iconified information, said system including a Web page server containing said Web page, an access server, and an access device capable of communicating with said Web page server through said access server, said processing performed during a communication session, said system comprising:

said access server comprising:

means for retrieving said Web page contained on said Web page server;

means for parsing said text-based information within said Web page;

means for recognizing a text-based telephone number contained within said text-based information of said parsed Web page, said text-based telephone number including a plurality of number symbols and at least one text symbol interspersed with said plurality of number symbols;

means for converting an HTML code representation of said Web page; and

means for adding a representation that iconifies said recognized text-based telephone number.

46. (Currently Amended) The system of claim 45, wherein said access device comprises:

means for transparently disconnecting from said communication session upon selection of said ~~selectable iconic representation of~~ representation that iconifies said recognized text-based telephone number; and

means for automatically dialing said selected recognized text-based telephone number to initiate a telephone call session.



47. (Previously Presented) The system of claim 46, wherein said access device further comprises:

means for recognizing the termination of said telephone call session; and

means for transparently re-connecting to said communication session.

48. (Canceled)

49. (Previously Presented) The system of claim 45, wherein said access server further comprises:

means for transmitting said Web page with said iconic representation of said recognized text-based telephone number to said access device.

50. (Previously Presented) The system of claim 49, wherein said access device is an Internet-capable telephone.

51, 52. (Canceled)

53. (Currently Amended) The system of claim 45, wherein said ~~selectable iconic telephone number of representation that iconifies~~ said recognized text-based telephone number is identified by one of a button surrounding said recognized text-based number, font appearance, underlining, or highlighting.

54. (Previously Presented) The system of claim 45, wherein all recognized text-based telephone numbers are each converted to an iconic representation.

55. (Previously Presented) The system of claim 45, wherein recognized text-based telephone numbers meeting specific criteria are each converted to iconic representations.

56. (Previously Presented) The system of claim 45, wherein said means for parsing and means for recognizing further comprise:

means for developing a set of Picture Formats for the patterns of telephone numbers;

means for reading an accessed Web page;

means for checking every character in said text-based information within said Web page to determine if said character is a numeric character;

means for sequentially checking a character following an identified numeric character to determine if said following character is any of a numeric or an interspersed text or punctuation character;

means for caching a series of consecutive identified numeric characters; and

means for comparing said cached series to said Picture Formats,

wherein a matching format indicates a text-based telephone number.

57. (Currently Amended) The system of claim 46, wherein said means for transparently disconnecting and said means for automatically dialing further comprise:

means for selecting said ~~selectable iconic representation of~~ representation that iconifies said recognized text-based telephone number in a display of said access device;

means for initiating a telephone call with said access device to said selected recognized text-based telephone number if a telephone line or sufficient bandwidth is available;

means for transparently disconnecting said access device from said session if a telephone line is not available, and thereupon initiating a telephone call to said selected recognized text-based telephone number;

means for recognizing with said access device the termination of said telephone call; and

means for optionally transparently re-connecting said access device to said communication session.

58. (Currently Amended) The system of claim 49, wherein said access device further comprises:

means for automatically storing said ~~selectable iconic representation of~~ representation that iconifies said recognized text-based telephone number in an address book.

59. (Previously Presented) An access server apparatus for recognizing and iconifying telephone numbers from a Web page, said apparatus comprising:

means for retrieving said Web page during an Internet session linking a Web page server to an access device, wherein said Web page is retrieved by said access server from said Web page server at the request of said access device;

means for parsing the HTML code of said Web page;

means for applying a parsing algorithm to text-based information other than previously iconified information within said Web page to pattern-recognize a text-based telephone number contained therein;

means for converting said HTML code to a representation of said Web page;

means for adding coding to said representation of said Web page to produce a selectable telephone number icon associated with said recognized text-based telephone number; and

means for transmitting said representation of said Web page with said selectable telephone number icon to said access device for display.

60. (Previously Presented) The apparatus of claim 59, wherein said means for applying said parsing algorithm further comprises:

means for developing a set of Picture Formats for the patterns of text-based telephone numbers;

means for reading an accessed HTML document;

means for checking every character in said text-based information of said HTML document to determine if said checked character is a numeric character;

means for sequentially checking a character following an identified number to determine if said character is any of numeric or an interspersed text or punctuation character;

means for caching a series of consecutive numeric characters; and

means for comparing said cached series to said Picture Formats,

wherein a matching format indicates a text-based telephone number.

61. (Currently Amended) The apparatus of claim 59, wherein said ~~iconified telephone number~~ selectable telephone number icon is identified by one of a button surrounding the text-based telephone number, font appearance, underlining, or highlighting.

62. (Previously Presented) The apparatus of claim 59, wherein all recognized text-based telephone numbers are iconified.

63. (Previously Presented) The apparatus of claim 59, wherein text-based telephone numbers meeting specific criteria are iconified.

64, 65. (Canceled)